

Appln No. 10/826,494
Amdt date February 16, 2006
Reply to Office action of November 16, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. Cancelled.
2. (Currently Amended) The assembly of claim [1] 8, wherein the rotor-drum inner surface is flush with adjoining inner surfaces of the diffuser shell.
3. (Currently Amended) The assembly of claim [1] 8, wherein the rotor drum and turbine blades are [ingerally] integrally formed.
4. (Currently Amended) The assembly of claim [1] 8, wherein the electrical generator comprises a cylindrical magnet assembly secured to [an] the outer surface of the rotor drum to rotate therewith, and a cylindrical stator-coil assembly secured to an inner surface of the diffuser shell, and extending around and slightly spaced from the magnet assembly.
5. (Currently Amended) The assembly of claim [1] 8, [and further comprising] wherein the bearing means comprises [space-apart] spaced-apart ring bearings adjacent opposite ends of the rotor drum for rotatably supporting the drum within the diffuser shell.
6. (Currently Amended) The assembly of claim [1] 8, and further comprising a plurality of inlet guide vanes secured within an inlet end of the diffuser shell upstream of the turbine blades.
7. (Previously Withdrawn - Reinstated) The assembly of claim [1] 8, wherein the electrical generator is drum shaped, and secured to the diffuser shell radially outwardly of the rotor drum, and further comprising a flexible belt engaged with the drum and generator.

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8. (Previously Presented) A diffuser-augmented wind-turbine assembly, the assembly having a diffuser outer-housing shell with an inner cylindrical portion, a rotor drum having inner and outer surfaces, the inner surface rigidly supporting a plurality of turbine blades, and bearing means positioned between the diffuser-shell inner cylindrical portion and the rotor-drum outer surface for rotatably supporting the rotor drum, the rotor drum being in driving engagement with a rotatable electrical generator.